

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---|------------------|---------|---------------------|
| S1    | 9    | ("4766154"   "5753194"   "6303535"   "6723886").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/11/11<br>11:56 |
| S2    | 11   | "5827901"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/11/11<br>12:05 |
| S3    | 53   | ((POUL) near2 (NIELSEN)).INV.   | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2008/11/11<br>12:09 |
| S4    | 1    | ((SUSANNE) near2 (JORGENSEN)).INV.  | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2008/11/11<br>12:10 |
| S5    | 30   | ("1984884"   "2524899"   "2675401"   "2792344"   "3925490"   "4110359"   "4540712"   "6444712"   "7214721").PN.             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/11/11<br>12:11 |
| S6    | 30   | ("1984884"   "2524899"   "2675401"   "2792344"   "3925490"   "4540712"   "4766154"   "5179129"   "5827901"   "7214721").PN. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/11/11<br>12:23 |
| S7    | 10   | "5384335"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/11/11<br>12:24 |
| S8    | 11   | "5216034"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/11/11<br>12:25 |
| S9    | 14   | "5631302"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/11/11<br>12:27 |

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| S10 | 1   | S1 and cool   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>12:29 |
| S11 | 0   | S5 and cool   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>12:31 |
| S12 | 9   | S6 and cool\$4  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>12:32 |
| S13 | 362 | hydrogen\$6 with aldehyd\$2<br>near6 keton\$2 with methanol   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:09 |
| S14 | 203 | S13 and copper  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:09 |
| S15 | 72  | S14 and @ay<="2002"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:10 |
| S16 | 30  | {"1984884"   "2524899"  <br>"2675401"   "2792344"  <br>"3925490"   "4110359"  <br>"4540712"   "6444712"  <br>"7214721").FN.             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:11 |
| S17 | 72  | S15 not S16   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:11 |
| S18 | 30  | {"1984884"   "2524899"  <br>"2675401"   "2792344"  <br>"3925490"   "4540712"  <br>"4766154"   "5179129"  <br>"5827901"   "7214721").FN. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:11 |

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| S19 | 72    | S17 not S18   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:11 |
| S20 | 16260 | hydrogen\$6 same aldehyd\$2<br>near6 keton\$2                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:20 |
| S21 | 83497 | prepar\$5 with methanol   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:21 |
| S22 | 2206  | S21 and S20   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:21 |
| S23 | 646   | S22 and copper  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:21 |
| S24 | 188   | S22 and (copper near5<br>catalyst)                              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:22 |
| S25 | 22    | S13 with (ruthenium or<br>rhodium or palladium or<br>platinium) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>14:25 |
| S26 | 3     | "6462206"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>15:02 |
| S27 | 1692  | 568/420,426,433,862.ccls.                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>15:04 |

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| S28 | 83497    | prepar\$5 with methanol                                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>15:04 |
| S29 | 0        | S26 and S28   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>15:04 |
| S30 | 565      | S27 and methanol  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>15:05 |
| S31 | 16260    | hydrogen\$6 same aldehyd\$2<br>near6 keton\$2           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>15:05 |
| S32 | 79       | S30 and S31   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/11<br>15:05 |
| S33 | 684      | methanol adj synthesis adj gas                          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:19 |
| S34 | 19       | S33 same hydrogenation                                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:19 |
| S35 | 803      | hydrogena\$5 same methanol<br>same aldehyde same ketone | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:23 |
| S36 | 31457472 | S35 @py<="2002"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:24 |

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| S37 | 621 | S35 and @py<="2002"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:25 |
| S38 | 720 | 518/700.ocls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:25 |
| S39 | 1   | S37 and S38  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:26 |
| S40 | 16  | "2653959"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:35 |
| S41 | 61  | S38 and S33  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:44 |
| S42 | 16  | S41 and hydrogena\$5   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:45 |
| S43 | 72  | methanol same aldehyde same<br>ketone same (carbon adj<br>monoxide) same (carbon adj<br>dioxide) same hydrogen | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:58 |
| S44 | 27  | S43 and hydrogena\$5   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>08:59 |
| S45 | 10  | "2569380"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>12:59 |

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| S46 | 87  | "2516940", "2465916",<br>"2234941", "2171324",<br>"2059495", "1979841",<br>"1684640".pn. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>13:03 |
| S47 | 25  | S46 and (aldehyde? near4<br>ketone?)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>13:03 |
| S48 | 12  | S47 and methanol   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>13:03 |
| S49 | 495 | "I14" and platinum   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>14:11 |
| S50 | 1   | S48 and platinum   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>14:12 |
| S51 | 0   | S48 and palladium  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>14:12 |
| S52 | 1   | S48 and (ruthenium or<br>rhodium)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>14:13 |
| S53 | 328 | hydrogena\$5 same (aldehyde?<br>and ketone?) same copper                                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>14:24 |
| S54 | 111 | S53 and methanol   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/13<br>14:25 |

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| S55 | 250 | hydrogena\$5 same aldehyde<br>and (copper near3 zinc near3<br>aluminum)                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/30<br>10:57 |
| S56 | 18  | hydrogena\$5 same aldehyde<br>and ((copper near3 zinc near3<br>aluminum) same methanol) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/30<br>10:57 |

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